

FIG. 1





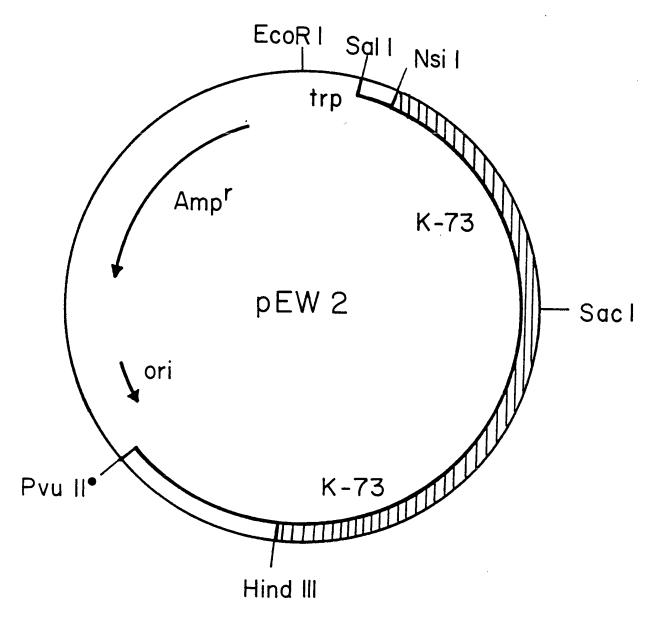
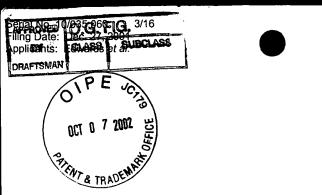


FIG. 2



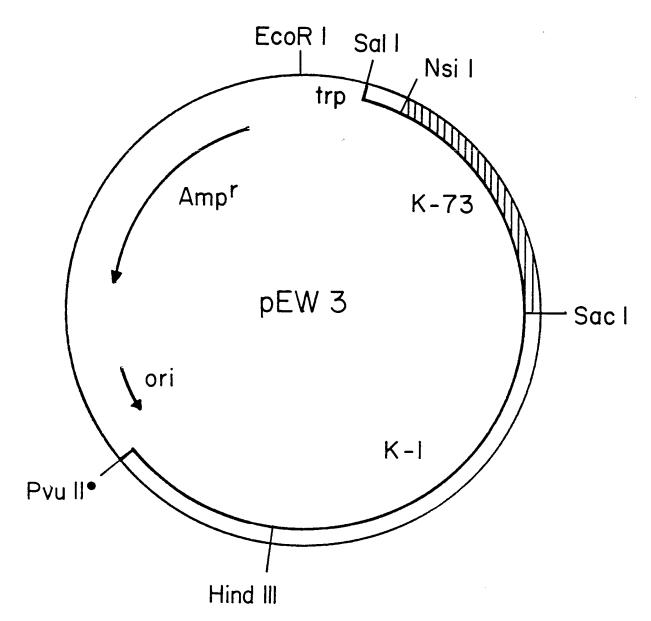


FIG. 3

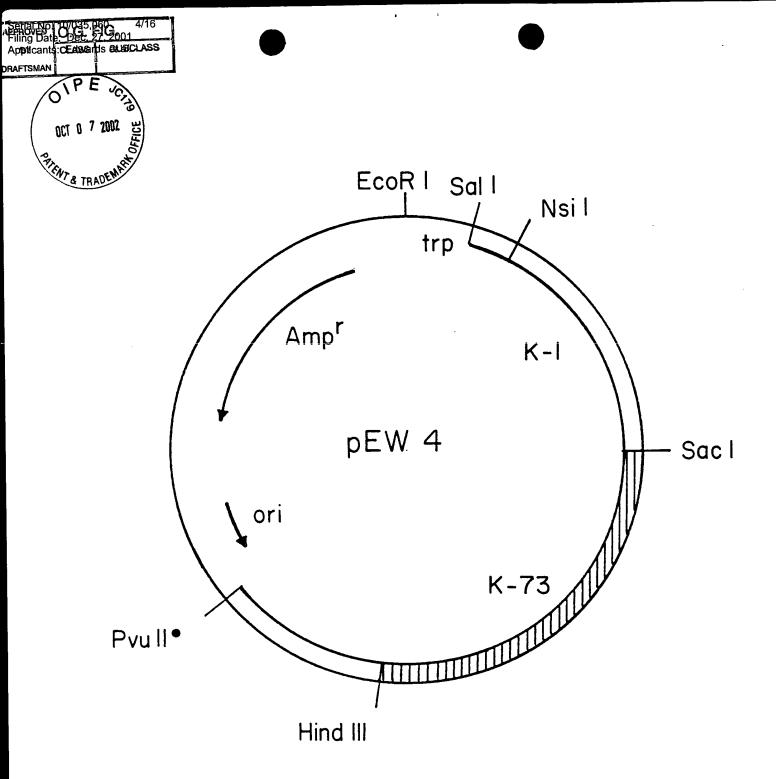
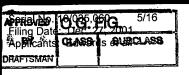


FIG. 4

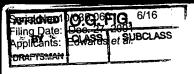




ATG GATAACAATC 400 (start HD-73) CGAACATCAA TGAATGCATT CCTTATAATT GTTTAAGTAA CCCTGAAGTA GAAGTATTAG GTGGAGAAAG AATAGAAACT GGTTACACCC CAATCGATAT 500 TTCCTTGTCG CTAACGCAAT TTCTTTTGAG TGAATTTGTT CCCGGTGCTG GATTTGTGTT AGGACTAGTT GATATAATAT GGGGAATTTT TGGTCCCTCT 600 CAATGGGACG CATTTCTTGT ACAAATTGAA CAGTTAATTA ACCAAAGAAT AGAAGAATTC GCTAGGAACC AAGCCATTTC TAGATTAGAA GGACTAAGCA 700 ATCTTTATCA AATTTACGCA GAATCTTTTA GAGAGTGGGA AGCAGATCCT CAGTGCCCTT ACAACCGCTA TTCCTCTTTT TGCAGTTCAA AATTATCAAG TTCCTCTTTT ATCAGTATAT GTTCAAGCTG CAAATTTACA TTTATCAGTT TTGAGAGATG TTTCAGTGTT TGGACAAAGG TGGGGATTTG ATGCCGCGAC TATCAATAGT CGTTATAATG ATTTAACTAG GCTTATTGGC AACTATACAG 1000 ATTATGCTGT ACGCTGGTAC AATACGGGAT TAGAACGTGT ATGGGGACCG GATTCTAGAG ATTGGGTAAG GTATAATCAA TTTAGAAGAG AATTAACACT 1100 AACTGTATTA GATATCGTTG CTCTGTTCCC GAATTATGAT AGTAGAAGAT ATCCAATTCG AACAGTTTCC CAATTAACAA GAGAAATTTA TACAAACCCA 1200 AAGAAGTATT AGGAGTCCAC ATTTGATGGA TATACTTAAC AGTATAACCA 1300 TCTATACGGA TGCTCATAGG GGTTATTATT ATTGGTCAGG GCATCAAATA ATGGCTTCTC CTGTAGGGTT TTCGGGGCCA GAATTCACTT TTCCGCTATA 1400 TGGAACTATG GGAAATGCAG CTCCACAACA ACGTATTGTT GCTCAACTAG GTCAGGGCGT GTATAGAACA TTATCGTCCA CTTTATATAG AAGACCTTTT 1500 AATATAGGGA TAAATAATCA ACAACTATCT GTTCTTGACG GGACAGAATT TGCTTATGGA ACCTCCTCAA ATTTGCCATC CGCTGTATAC AGAAAAAGCG 1600 GAACGGTAGA TTCGCTGGAT GAAATACCGC CACAGAATAA CAACGTGCCA CCTAGGCAAG GATTTAGTCA TCGATTAAGC CATGTTTCAA TGTTTCGTTC 1700 AGGCTTTAGT AATAGTAGTG TAAGTATAAT AAGAGCT (end hd-73) CCAACGT TTTCTTGGCA GCATCGCAGT 1900 (start HD-1) GCTGAATTTA ATAATATAAT TCCTTCATCA CAAATTACAC AAATACCTTT AACAAAATCT ACTAATCTTG GCTCTGGAAC TTCTGTCGTT AAAGGACCAG 2000 GATTTACAGG AGGAGATATT CTTCGAAGAA CTTCACCTGG CCAGATTTCA ACCTTAAGAG TAAATATTAC TGCACCATTA TCACAAAGAT ATCGGGTAAG 2100 AATTCGCTAC GCTTCTACTA CAAATTTACA ATTCCATACA TCAATTGACG GAAGACCTAT TAATCAGGGT AATTTTTCAG CAACTATGAG TAGTGGGAGT 2200 AATTTACAGT CCGGAAGCTT TAGGACTGTA GGTTTTACTA CTCCGTTTAA CTTTTCAAAT GGATCAAGTG TATTTACGTT AAGTGCTCAT GTCTTCAATT 2300 CAGGCAATGA AGTTTATATA GATCGAATTG AATTTGTTCC GGCAGAAGTA ACCTTTGAGG CAGAATATGA TTTAGAAAGA GCACAAAAGG CGGTGAATGA GCTGTTTACT TCTTCCAATC AAATCGGGTT AAAAACAGAT GTGACGGATT ATCATATTGA TCAAGTATCC AATTTAGTTG AGTGTTTATC AGATGAATTT 2500 TGTCTGGATG AAAAACAAGA ATTGTCCGAG AAAGTCAAAC ATGCGAAGCG ACTTAGTGAT GAGCGGAATT TACTTCAAGA TCCAAACTTC AGAGGGATCA 2600 ATAGACAACT AGACCGTGGC TGGAGAGGAA GTACGGATAT TACCATCCAA GGAGGCGATG ACGTATTCAA AGAGAATTAC GTTACGCTAT TGGGTACCTT 2700 TGATGAGTGC TATCCAACGT ATTTATATCA AAAAATAGAT GAGTCGAAAT

FIG. 5A

(SEQ. ID. NO. 1)





TAAAAGCCTA TACCCGTTAT CAATTAAGAG GGTATATCGA AGATAGTCAA 2800 GACTTAGAAA TCTATTTAAT TCGCTACAAT GCAAAACATG AAACAGTAAA TGTGCCAGGT ACGGGTTCCT TATGGCCGCT TTCAGCCCAA AGTCCAATCG 2900 GAAAGTETGG AGAGCCGAAT CGATGCGCGC CACACCTTGA ATGGAATCCT GACTTAGATT GTTCGTGTAG GGATGGAGAA AAGTGTGCCC ATCATTCGCA 3000 TCATTTCTCC TTAGACATTG ATGTAGGATG TACAGACTTA AATGAGGACC TAGGTETATG GETGATCTTT AAGATTAAGA CGCAAGATGG GCACGCAAGA 3100 CTAGGGAATC TAGAGTTTCT CGAAGAGAAA CCATTAGTAG GAGAAGCGCT AGCTCGTGTG AAAAGAGCGG AGAAAAAATG GAGAGACAAA CGTGAAAAAT 3200 TGGAATGGGA AACAAATATC GTTTATAAAG AGGCAAAAGA ATCTGTAGAT GCTTTATTTG TAAACTCTCA ATATGATCAA TTACAAGCGG ATACGAATAT 3300 TGCCATGATT CATGCGGCAG ATAAACGTGT TCATAGCATT CGAGAAGCTT ATCTGCCTGA GCTGTCTGTG ATTCCGGGTG TCAATGCGGC TATTTTTGAA 3400 GAATTAGAAG GGCGTATTTT CACTGCATTC TCCCTATATG ATGCGAGAAA TETCATTAAA AATGGTGATT TTAATAATGG CTTATCCTGC TGGAACGTGA 3500 AAGGGCATGT AGATGTAGAA GAACAAAACA ACCAACGTTC GGTCCTTGTT CTTCCGGAAT GGGAAGCAGA AGTGTCACAA GAAGTTCGTG TCTGTCCGGG 3600 TCGTGGCTAT ATCCTTCGTG TCACAGCGTA CAAGGAGGGA TATGGAGAAG GTTGCGTAAC CATTCATGAG ATCGAGAACA ATACAGACGA ACTGAAGTTT 3700 AGCAACTGCG TAGAAGAGGA AATCTATCCA AATAACACGG TAACGTGTAA TGATTATACT GTAAATCAAG AAGAATACGG AGGTGCGTAC ACTTCTCGTA 3800 ATCGAGGATA TAACGAAGCT CCTTCCGTAC CAGCTGATTA TGCGTCAGTC TATGAAGAAA AATCGTATAC AGATGGACGA AGAGAGAATC CTTGTGAATT 3900 TAACAGAGGG TATAGGGATT ACACGCCACT ACCAGTTGGT TATGTGACAA AAGAATTAGA ATACTTCCCA GAAACCGATA AGGTATGGAT TGAGATTGGA 4000 GAAACGGAAG GAACATTTAT CGTGGACAGC GTGGAATTAC TCCTTATGGA GGAA (end HD-1)

FIG. 5B

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N N P N I N E C I P Y N C L S N P E V E V L G G E R I E LSLTQFLLSEF VΡ GAGF PIDIS IFGPSQWDAFLVQIEQLINQRI ARNQAISRLEGLSNLYQIYAE SFREWE PALREEMRIQFNDMNSALT TAIPLF Q N Y Q V P L L S V Y V Q A A N L H L S V L R D V S VF TRLIGNYTDY INS RYND L GFDAAT G L E R V W G P D S R D W V R Y N Q F R R E L V A L F P N Y D S R R Y P I R T V S Q L T R E Ι NFDGSFRGSAQGIERSIRSPHLMD TDAHRGYYYWSGHQIMASPVG ΙY LYGTMGNAAPQQRIVAQLGQGV TLYRRPFNIGINNQQLSVLDGTEF S S S N L P S A V Y R K S G T V D S L D E I P P Q N N N GT G F S H R L S H V S M F R S G F S N S S V S I PPRO WQHRSAEFNNIIPSSQITQIPLT K S TGGDILRRT SPGQ Ι GTSVVKGPGF LRVNITAPLSQRYRVRIRYASTTNLQFH GRPINQGNFSATMSSGSNLQSGSFR TLSAHVFNSGNEV Y F N F S N G S S V F V T F E A E Y D L E R A Q K A V N E L RIEF VPAE SNQIGLKTDVTDYHIDQVSNLVECL S D EKQELSEKVKHAKRLSDERNLLQDP DITIQGGDDVFKE GINRQLDRGWRGS ${
m T}$ TLLGTFDECYPTYLYQKIDESKLKAYT V N V LRGYIEDSQDLEIYLIRYNAKHE T PLSAQSPIGKCGEPNRCAPHL EWCRDGEKCAHHSHHFSLD I D V G C ${f T}$ IFKIKTQDGHARLGNL LGVWV LVGEALARVKRAEKKWRDKREKL ΕW QYDQLQAD TNIA VDALFVNS YKEAKES IREAYLPELSVIPGVNAAI AADKRVHS SLYDARNVIKNGDFNNGL LEGRIFT A F SVLVLPEW Ε ΑE V S VEEQNNQR NVKGHVD V R V C P G R G Y I L R V T A Y K E G Y G E C V Т IHE G Т V T C N D Y ENNTDELKFSNCVEE Ι YPNN Ε Q E E Y G G A Y T S R N R G Y N E A P S V P A DYAS EKSYTDGRRENPCEFNRGYRDYT PLPV TKELEYFPETDKVWIEIGETEGTFIVDSV ELLLMEE

FIG. 6

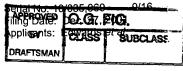
(SEQ. ID. NO. 2)



ATGG ATAACAATCC GAACATCAAT (start HD-1) GAATGCATTC CTTATAATTG TTTAAGTAAC CCTGAAGTAG AAGTATTAGG 600 TGGAGAAAGA ATAGAAACTG GTTACACCCC AATCGATATT TCCTTGTCGC TAACGCAATT TCTTTTGAGT GAATTTGTTC CCGGTGCTGG ATTTGTGTTA 700 GGACTAGTTG ATATAATATG GGGAATTTTT GGTCCCTCTC AATGGGACGC ATTTCCTGTA CAAATTGAAC AGTTAATTAA CCAAAGAATA GAAGAATTCG 800 CTAGGAACCA AGCCATTTCT AGATTAGAAG GACTAAGCAA TCTTTATCAA ATTTACGCAG AATCTTTTAG AGAGTGGGAA GCAGATCCTA CTAATCCAGC 900 ATTAAGAGAA GAGATGCGTA TTCAATTCAA TGACATGAAC AGTGCCCTTA CAACCGCTAT TCCTCTTTTG GCAGTTCAAA ATTATCAAGT TCCTCTTTTA 1000 TCAGTATATG TTCAAGCTGC AAATTTACAT TTATCAGTTT TGAGAGATGT TTCAGTGTTT GGACAAAGGT GGGGATTTGA TGCCGCGACT ATCAATAGTC GTTATAATGA TTTAACTAGG CTTATTGGCA ACTATACAGA TTATGCTGTG CGCTGGTACA ATACGGGATT AGAGCGTGTA TGGGGACCGG ATTCTAGAGA 1200 TTGGGTAAGG TATAATCAAT TTAGAAGAGA GCTAACACTT ACTGTATTAG ATATOGTTGO TOTATTOTOA AATTATGATA GTOGAAGGTA TOCAATTOGA 1300 ACAGTTTCCC AATTAACAAG AGAAATTTAT ACGAACCCAG TATTAGAAAA TTTTGATGGT AGTTTTCGTG GAATGGCTCA GAGAATAGAA CAGAATATTA 1400 GGCAACCACA TCTTATGGAT ATCCTTAATA GTATAACCAT TTATACTGAT GTGCATAGAG GCTTTAATTA TTGGTCAGGG CATCAAATAA CAGCTTCTCC TGTAGGGTTT TCAGGACCAG AATTCGCATT CCCTTTATTT GGGAATGCGG GGAATGCAGC TCCACCCGTA CTTGTCTCAT TAACTGGTTT GGGGATTTTT 1600 AGAACATTAT CTTCACCTTT ATATAGAAGA ATTATACTTG GTTCAGGCCC AAATAATCAG GAACTGTTTG TCCTTGATGG AACGGAGTTT TCTTTTGCCT 1700 CCCTAACGAC CAACTTGCCT TCCACTATAT ATAGACAAAG GGGTACAGTC GATTCACTAG ATGTAATACC GCCACAGGAT AATAGTGTAC CACCTCGTGC 1800 GGGATTTAGC CATCGATTGA GTCATGTTAC AATGCTGAGC CAAGCAGCTG (stop HD-1) GAGCAGTTTA CACCTTGAGA GCTCAACGT (start HD-73) CCT ATGTTCTCTT GGATACATCG TAGTGCTGAA TITAATAATA TAATTGCATC GGATAGTATT ACTCAAATCC CTGCAGTGAA GGGAAACTTT CTTTTTAATG GTTCTGTAAT TTCAGGACCA GGATTTACTG GTGGGGACTT AGTTAGATTA AATAGTAGTG 1900 GAAATAACAT TCAGAATAGA GGGTATATTG AAGTTCCAAT TCACTTCCCA TCGACATCTA CCAGATATCG AGTTCGTGTA CGGTATGCTT CTGTAACCCC 2000 GATTCACCTC AACGTTAATT GGGGTAATTC ATCCATTTTT TCCAATACAG TACCAGCTAC AGCTACGTCA TTAGATAATC TACAATCAAG TGATTTTGGT 2100 TATTTTGAAA GTGCCAATGC TTTTACATCT TCATTAGGTA ATATAGTAGG TGTTAGAAAT TTTAGTGGGA CTGCAGGAGT GATAATAGAC AGATTTGAAT 2200 TTATTCCAGT TACTGCAACA CTCGAGGCTG AATATAATCT GGAAAGAGCG

FIG. 7A

(SEO. ID. NO. 4)





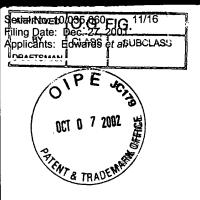
CAGAAGGCGG TGAATGCGCT GTTTACGTCT ACAAACCAAC TAGGGCTAAA 2300 AACAAATGTA ACGGATTATC ATATTGATCA AGTGTCCAAT TTAGTTACGT ATTTATCGGA TGAATTTTGT CTGGATGAAA AGCGAGAATT GTCCGAGAAA 2400 GTCAAACATG CGAAGCGACT CAGTGATGAA CGCAATTTAC TCCAAGATTC AAATTTCAAA GACATTAATA GGCAACCAGA ACGTGGGTGG GGCGGAAGTA 2500 CAGGGATTAC CATCCAAGGA GGGGATGACG TATTTAAAGA AAATTACGTC ACACTATCAG GTACCTTTGA TGAGTGCTAT CCAACATATT TGTATCAAAA 2600 AATCGATGAA TCAAAATTAA AAGCCTTTAC CCGTTATCAA TTAAGAGGGT ATATCGAAGA TAGTCAAGAC TTAGAAATCT ATTTAATTCG CTACAATGCA 2700 AAACATGAAA CAGTAAATGT GCCAGGTACG GGTTCCTTAT GGCCGCTTTC AGCCCAAAGT CCAATCGGAA AGTGTGGAGA GCCGAATCGA TGCGCGCCAC 2800 ACCTTGAATG GAATCCTGAC TTAGATTGTT CGTGTAGGGA TGGAGAAAAG TGTGCCCATC ATTCGCATCA TTTCTCCTTA GACATTGATG TAGGATGTAC 2900 AGACTTAAAT GAGGACCTAG GTGTATGGGT GATCTTTAAG ATTAAGACGC AAGATGGCA CGCAAGACTA GGGAATCTAG AGTTTCTCGA AGAGAAACCA 3000 TTAGTAGGAG AAGCGCTAGC TCGTGTGAAA AGAGCGGAGA AAAAATGGAG AGACAAACGT GAAAAATTGG AATGGGAAAC AAATATCGTT TATAAAGAGG 3100 CAAAAGAATC TGTAGATGCT TTATTTGTAA ACTCTCAATA TGATCAATTA CAAGCGGATA CGAATATTGC CATGATTCAT GCGGCAGATA AACGTGTTCA 3200 TAGCATTOGA GAAGOTTATO TOCCTGAGOT GTOTGTGATT COGGGTGTCA ATGCGGCTAT TTTTGAAGAA TTAGAAGGGC GTATTTTCAC TGCATTCTCC 3300 CTATATGATG CGAGAAATGT CATTAAAAAT GGTGATTTTA ATAATGGCTT ATCCTGCTGG AACGTGAAAG GGCATGTAGA TGTAGAAGAA CAAAACAACC 3400 AACGTTCGGT CCTTGTTGTT CCGGAATGGG AAGCAGAAGT GTCACAAGAA GTTCGTGTCT GTCCGGGTCG TGGCTATATC CTTCGTGTCA CAGCGTACAA 3500 GGAGGGATAT GGAGAAGGTT GCGTAACCAT TCATGAGATC GAGAACAATA CAGACGAACT GAAGTTTAGC AACTGCGTAG AAGAGGAAAT CTATCCAAAT 3600 AACACGGTAA CGTGTAATGA TTATACTGTA AATCAAGAAG AATACGGAGG TGCGTACACT TCTCGTAATC GAGGATATAA CGAAGCTCCT TCCGTACCAG 3700 CTGATTATGC GTCAGTCTAT GAAGAAAAAT CGTATACAGA TGGACGAAGA GAGAATCCTT GTGAATTTAA CAGAGGGTAT AGGGATTACA CGCCACTACC 3800 AGTTEGTTAT GTGACAAAAG AATTAGAATA CTTCCCAGAA ACCGATAAGG TATGGATTGA GATTGGAGAA ACGGAAGGAA CATTTATCGT GGACAGCGTG 3900 GAATTACTCC TTATGGAGGA A (end HD-73)

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INECIPYNCLSNPEVEVLGGERIE NNPN SLTQFLLSEFVP GAGF VLGL PIDISL Y Τ WGIFGPSQWDAFPVQIEQLINQRIEE V D ARNQAISRLEGLSNLYQIYAESFRE WE NPALREEMRIQFNDMNSALTTA YOVPLLSVYVQAANLHLSVLRDVS RWGFDAATINSRYNDLTRLIGNYTDYA RVWGPDSRDWVRYNQFRREL YNTGLE V A L F S N Y D S R R Y P I R T V S Q L T R E I V L E N F D G S F R G M A Q R I E Q N I R Q P H L M D IYTDVHRGFNYWSGHQITASPV G FAFPLFGNAGNAAPPVLVSLTGLGI PE ILGSGPNNQELFVLDGT Ε PLYRRI TIYRQRGTVDSLDVIPPQDN TTNL ΡS SHRLSHVTMLSQAAGAVYTL RΑ F S W I H R S A E F N N I I A S D S I T Q I P A V G P G F T G G D L V R L N S S G N N I S LFNGSVI TRYRVRVRYASVT IEVPIHFP S \mathbf{T} S NRGY SLDNLQ PATAT HLNVNWGNS S ΙF SNT V VGVRNFSGTAGV SSLGNI Т SANAF GYFE IDRFEFIPVTATLEAEYNLERAQKAVNAL NOLGLKTNVTDYHIDQVSNLVT YLSD DEKRELSEKVKHAKRLSDERNLLQDSN K D I N R Q P E R G W G G S T G I T I Q G G D D V F ΚE V T L S G T F D E C Y P T Y L Y Q K I D E S K L K A F Q L R G Y I E D S Q D L E I Y L I R Y N A K H E T V TGSLWPLSAQSPIGKCGEPNRCAPHL SCRDGEKCAHHSHHFSLDIDVG PDLDC D L G V W V I F K I K T Q D G H A R L G N L E F L E V G E A L A R V K R A E K K W R D K R E K L ALFVNSQYDQLQAD T N IAM YKEAKES V D HAADKRVHSIREAYLPELSVIP G V N SLYDARNVI K N G D F T A F ELEGRI EQNNQRSVL V V Ρ Ε WNV KGHV D VΕ EVRVCPGRGYILRVTAYKE GYG E G V SNCVEEEIYPNNT VT IENNTDELKF V N Q E E Y G G A Y T S R N R G Y N E A P S V PΑ Y YEEKSYTDGRRENPCEFNRGYRD ΥT ΡL YVTKELEYFPETDKVWIEIGETEGTFIVD SVELLLMEE

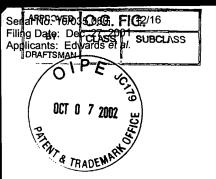
(SEQ. ID. NO. 3)



	(start	HD-73)	ATG	GATAACAATC	400
CGAACATCAA	TGAATGCATT		GTTTAAGTAA	CCCTGAAGTA	
		AATAGAAACT		CAATCGATAT	500
	CTAACGCAAT	TTCTTTTGAG	TGAATTTGTT	CCCGGTGCTG	
	AGGACTAGTT	GATATAATAT		TEGTCCCTCT	600
	CATTTCTTGT	ACAAATTGAA			
	GCTAGGAACC	AAGCCATTTC	TAGATTAGAA		700
	AATTTACGCA		GAGAGTGGGA		
	CATTAAGAGA				800
	ACAACCGCTA	TTCCTCTTTT		AATTATCAAG	
TTCCTCTTTT		GTTCAAGCTG			900
	TTTCAGTGTT	TGGACAAAGG	TGGGGATTTG		
TATCAATAGT		ATTTAACTAG		AACTATACAG	1000
ATTATECTET		AATACGGGAT	TAGAACGTGT	ATGGGGACCG	
GATTCTAGAG			TTTAGAAGAG		1100
AACTGTATTA			GAATTATGAT	AGTAGAAGAT	
	AACAGTTTCC	CAATTAACAA		TACAAACCCA	1200
	ATTTTGATGG	TAGTTTTCGA		AGGGCATAGA	
AAGAAGTATT	AGGAGTCCAC	ATTTGATGGA	TATACTTAAC	AGTATAACCA	1300
TCTATACGGA		GGTTATTATT			
	CTGTAGGGTT	TTCGGGGCCA		TTCCGCTATA	1400
	GGAAATGCAG	CTCCACACA		GCTCAACTAG	
			CTTTATATAG		1500
GTCAGGGCGT	_	ACAACTATCT			1000
AATATAGGGA	TAAATAATCA			AGAAAAAGCG	1600
	ACCTCCTCAA		CACAGAATAA		1000
	TTCGCTGGAT				.700
	GATTTAGTCA		CATGTTTCAA		1700
	AATAGTAGTG		AAGTATAAT AAGAGCT (end hd-73) CCAACGT TTTCTTGGCA GCATCGCAGT 1		
(start					1900
	ATAATATAAT		CAAATTACAC		2000
	ACTAATCTTG			AAAGGACCAG	2000
		CTTCGAAGAA			2100
		CAAATTTACA			2100
GAAGACCTAT	TAATCAGGGT		CAACTATGAG	TAGTGGGAGT	2200
AATTTACAGT			GGTTTTACTA		2200
CTTTTCAAAT				GTCTTCAATT	2700
	AGTTTATATA		AATTTGTTCC		2300
		TTTAGAAAGA	•		2400
		AAATCGGGTT			2.00
					2500
-	· - · · · · - · · · ·	ATTETEERA			2300
		ATTGTCCGAG			2400
		TACTTCAAGA	•		2000
ATAGACAACT	HUHLUG I GGC	TGGAGAGGAA	GIALGGATAT	IALLATULAA	

FIG. 9A

(SEQ. ID. NO. 6)



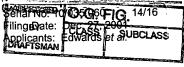
GGAGGCGATG ACGTATTCAA AGAGAATTAC GTTACGCTAT TGGGTACCTT 2700 TGATGAGTGC TATCCAACGT ATTTATATCA AAAAATAGAT GAGTCGAAAT TAAAAGCCTA TACCCGTTAT CAATTAAGAG GGTATATCGA AGATAGTCAA 2800 GACTTAGAAA TCTATTTAAT TCGCTACAAT GCAAAACATG AAACAGTAAA TGTGCCAGGT ACGGGTTCCT TATGGCCGCT TTCAGCCCAA AGTCCAATCG 2900 GAAAGTGTGG AGAGCCGAAT CGATGCGCGC CACACCTTGA ATGGAATCCT GACTTAGATT GTTCGTGTAG GGATGGAGAA AAGTGTGCCC ATCATTCGCA 3000 TCATTTCTCC TTAGACATTG ATGTAGGATG TACAGACTTA AATGAGGACC TAGGTETATG GGTGATCTTT AAGATTAAGA CGCAAGATGG GCACGCAAGA 3100 CTAGGGAATC TAGAGTTTCT CGAAGAGAAA CCATTAGTAG GAGAAGCGCT AGCTCGTGTG AAAAGAGCGG AGAAAAAATG GAGAGACAAA CGTGAAAAAT TGGAATGGGA AACAAATATC GTTTATAAAG AGGCAAAAGA ATCTGTAGAT GCTTTATTTG TAAACTCTCA ATATGATCAA TTACAAGCGG ATACGAATAT 3300 TECCATGATT CATGCGGCAG ATAAACGTGT TCATAGCATT CGAGAAGCTT ATCTGCCTGA GCTGTCTGTG ATTCCGGGTG TCAATGCGGC TATTTTTGAA 3400 GAATTAGAAG GGCGTATTTT CACTGCATTC TCCCTATATG ATGCGAGAAA TETCATTAAA AATGGTGATT TTAATAATGG CTTATCCTGC TGGAACGTGA 3500 AAGGGCATGT AGATGTAGAA GAACAAAACA ACCAACGTTC GGTCCTTGTT CTTCCGGAAT GGGAAGCAGA AGTGTCACAA GAAGTTCGTG TCTGTCCGGG 3600 TCGTGGCTAT ATCCTTCGTG TCACAGCGTA CAAGGAGGGA TATGGAGAAG GTTGCGTAAC CATTCATGAG ATCGAGAACA ATACAGACGA ACTGAAGTTT AGCAACTGCG TAGAAGAGGA AATCTATCCA AATAACACGG TAACGTGTAA TGATTATACT GTAAATCAAG AAGAATACGG AGGTGCGTAC ACTTCTCGTA 3800 ATCGAGGATA TAACGAAGCT CCTTCCGTAC CAGCTGATTA TGCGTCAGTC TATGAAGAAA AATCGTATAC AGATGGACGA AGAGAGAATC CTTGTGAATT 3900 TAACAGAGGG TATAGGGATT ACACGCCACT ACCAGTTGGT TATGTGACAA AAGAATTAGA ATACTTCCCA GAAACCGATA AGGTATGGAT TGAGATTGGA 4000 GAAACGGAAG GAACATTTAT CGTGGACAGC GTGGAATTAC TCCTTATGGA GGAA (end HD-1)

FIG. 9B

Serial No. 10/d30,080 FIG13/16
Fing Dete: Declass PO SUBCLASS
Applicants: Financial M. D. N. M. T. G. Y. T. V. D. I. I.

D N N P N I N E C I P Y N C L S N P E V E V L G G E R I E PID ISLSLTQFLLSE FVPGA GFVLGL IEOLINORI WGI FGPSQWDAFLVQ SRLEGLSNLYQI Y A E S F RΕ WE A R NQAI PALR ΕE M R IQFNDMNS ΑL T ΤA Ν SVL Y QVPL LSVYVQAANLHL R D V S INS RYNDL TRL I G N Y T D G FDAA T SRDWVRYNQFRR Ε Y N G L ΕR V W G Ρ D L RT YDSRRYPI V S QL Т R E Ι Y Ι VALF ΡN L D F D GSFRGSAQGIERS IRSPHLM D Ι DAHRGYYYWSGHQIMAS Ρ V G F T POORIVAQL O G V GNAA G F Y G Т Μ NI G I NNQQLSVLDGT E F Т S Τ LYRR P F TVDSLNEIPPQNNN G SNLP VYRK S S SA FSHRLSHVSMFRSGFSNSS R V S Ι Ι QΕ NNI Ρ S S Q ΙT Q Ι SWQHRSAE F Ι F G F T GGDILRR TSPGQ Ι G SGTSVVKGP Ν ORYRVRIRYA S TTNLQF Η V N Ι TAPLS INQGNF GSNLQ SGSFRT S Α T M S S AHVFNSG Y F Т F S N G S SVF Τ L S ΝE V F Ν EAEYDLERAQKAVNE L F F R Ε F VPAE V T T YHIDQVS N LVEC L S D Ε IGLKTD V D AKRLSDE R N L L D Ρ DEKOELSE KVKH INROLDRGWR G S TDITIQ G G D D V F K Ε YLYQKIDE TFDECYP T SKLK T L L G IYLIRYNAKH Ε Ε ${
m T}$ V Ν I E D SQDL RGY IGKCGEPNR C A РН Ε PLSAQSP W L AHHSHHFSL D Ι D V G C T С S R D GEKC GNLE Ε Ē ΚT ODGHARL F L I F ΚI V Т AEKKWRDKREKLE Ε RVKR W V G EALA FVNS QYD Q L Q A D T Ν Ι Α Μ ΚE S V D ΑL Y Α ΚE s v I Р G V N Ι F RΕ AYLP E LA D KRVHS Ι G SLYDARNV Ι K N G D F N Ν G R Ι F Т A F EQNNQRSV Ε \mathbf{L} V L Ρ V Ε VKGH V D V Ν Ρ GRGY ILRVTAY ΚE G Y G Ε G C V T Ι Η Ν Ν Т V T KF S N CVEEE Ι ΥP T EL N N D AYTSRNRGYNE ΑP S V ₽ Α D Y S GG ΥT V D G R R E N P C E F N R G Y R D Ρ L Ρ Т TKELEYFPETDKVWIEIGETEGTFIVD LLLMEE

(SEQ. ID. NO. 5)





(start HD-73) ATG GATAACAATC 400 CGAACATCAA TGAATGCATT CCTTATAATT GTTTAAGTAA CCCTGAAGTA GAAGTATTAG GTGGAGAAAG AATAGAAACT GGTTACACCC CAATCGATAT 500 TTCCTTGTCG CTAACGCAAT TTCTTTTGAG TGAATTTGTT CCCGGTGCTG GATTTGTGTT AGGACTAGTT GATATAATAT GGGGAATTTT TGGTCCCTCT 600 CAATGGGACG CATTTCTTGT ACAAATTGAA CAGTTAATTA ACCAAAGAAT AGAAGAATTC GCTAGGAACC AAGCCATTTC TAGATTAGAA GGACTAAGCA 700 ATCTTTATCA AATTTACGCA GAATCTTTTA GAGAGTGGGA AGCAGATCCT CAGTGCCCTT ACAACCGCTA TTCCTCTTTT TGCAGTTCAA AATTATCAAG TTCCTCTTTT ATCAGTATAT GTTCAAGCTG CAAATTTACA TTTATCAGTT 900 TTGAGAGATG TTTCAGTGTT TGGACAAAGG TGGGGATTTG ATGCCGCGAC TATCAATAGT CGTTATAATG ATTTAACTAG GCTTATTGGC AACTATACAG 1000 ATTATECTET ACCCTGGTAC AATACGGGAT TAGAACGTGT ATGGGGACCG GATTCTAGAG ATTGGGTAAG GTATAATCAA TTTAGAAGAG AATTAACACT 1100 AACTGTATTA GATATCGTTG CTCTGTTCCC GAATTATGAT AGTAGAAGAT ATCCAATTCG AACAGTTTCC CAATTAACAA GAGAAATTTA TACAAACCCA 1200 AAGAAGTATT AGGAGTCCAC ATTTGATGGA TATACTTAAC AGTATAACCA 1300 TCTATACGGA TGCTCATAGG GGTTATTATT ATTGGTCAGG GCATCAAATA ATGGCTTCTC CTGTAGGGTT TTCGGGGCCA GAATTCACTT TTCCGCTATA 1400 TGGAACTATG GGAAATGCAG CTCCACAACA ACGTATTGTT GCTCAACTAG GTCAGGGCGT GTATAGAACA TTATCGTCCA CTTTATATAG AAGACCTTTT 1500 AATATAGGGA TAAATAATCA ACAACTATCT GTTCTTGACG GGACAGAATT TGCTTATGGA ACCTCCTCAA ATTTGCCATC CGCTGTATAC AGAAAAAGCG 1600 GAACGGTAGA TTCGCTGGAT GAAATACCGC CACAGAATAA CAACGTGCCA CCTAGGCAAG GATTTAGTCA TCGATTAAGC CATGTTTCAA TGTTTCGTTC 1700 AGGCTTTAGT AATAGTAGTG TAAGTATAAT AAGAGCT (end hd-73) (start HD-1) CCAACGT TTTCTTGGCA GCATCGCAGT 1900 GCTGAATTTA ATAATATAAT TCCTTCATCA CAAATTACAC AAATACCTTT AACAAAATCT ACTAATCTTG GCTCTGGAAC TTCTGTCGTT AAAGGACCAG 2000 GATTTACAGG AGGAGATATT CTTCGAAGAA CTTCACCTGG CCAGATTTCA ACCTTAAGAG TAAATATTAC TGCACCATTA TCACAAAGAT ATCGGGTAAG 2100 AATTEGETAE GETTETAETA CAAATTTACA ATTECATACA TEAATTGAEG GAAGACCTAT TAATCAGGGT AATTTTTCAG CAACTATGAG TAGTGGGAGT 2200 AATTTACAGT CCGGAAGCTT TAGGACTGTA GGTTTTACTA CTCCGTTTAA CTTTTCAAAT GGATCAAGTG TATTTACGTT AAGTGCTCAT GTCTTCAATT 2300 CAGGCAATGA AGTTTATATA GATCGAATTG AATTTGTTCC GGCAGAAGTA ACCTTTGAGG CAGAATATGA TTTAGAAAGA GCACAAAAGG CGGTGAATGA 2400 GCTGTTTACT TCTTCCAATC AAATCGGGTT AAAAACAGAT GTGACGGATT ATCATATTGA TCAAGTATCC AATTTAGTTG AGTGTTTATC AGATGAATTT 2500 TGTCTGGATG AAAAACAAGA ATTGTCCGAG AAAGTCAAAC ATGCGAAGCG ACTTAGTGAT GAGCGGAATT TACTTCAAGA TCCAAACTTC AGAGGGATCA 2600 ATAGACAACT AGACCGTGGC TGGAGAGGAA GTACGGATAT TACCATCCAA GGAGGCGATG ACGTATTCAA AGAGAATTAC GTTACGCTAT TGGGTACCTT 2700 TGATGAGTGC TATCCAACGT ATTTATATCA AAAAATAGAT GAGTCGAAAT

FIG. 11A

(SEQ. ID. NO. 7)

Serial No. 10/082.080. FIG 5/16
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Arplicants Arguerts Arguerts



TAAAAGCCTA TACCCGTTAT CAATTAAGAG GGTATATCGA AGATAGTCAA 2800 GACTTAGAAA TCTATTTAAT TCGCTACAAT GCAAAACATG AAACAGTAAA TGTGCCAGGT ACGGGTTCCT TATGGCCGCT TTCAGCCCAA AGTCCAATCG 2900 GAAAGTGTGG AGAGCCGAAT CGATGCGCGC CACACCTTGA ATGGAATCCT GACTTAGATT GTTCGTGTAG GGATGGAGAA AAGTGTGCCC ATCATTCGCA 3000 TCATTTCTCC TTAGACATTG ATGTAGGATG TACAGACTTA AATGAGGACC TAGGTGTATG GGTGATCTTT AAGATTAAGA CGCAAGATGG GCACGCAAGA 3100 CTAGGGAATC TAGAGTTTCT CGAAGAGAAA CCATTAGTAG GAGAAGCGCT AGCTCGTGTG AAAAGAGCGG AGAAAAAATG GAGAGACAAA CGTGAAAAAAT 3200 TGGAATGGGA AACAAATATC GTTTATAAAG AGGCAAAAGA ATCTGTAGAT GCTTTATTTG TAAACTCTCA ATATGATCAA TTACAAGCGG ATACGAATAT 3300 TGCCATGATT CATGCGGCAG ATAAACGTGT TCATAGCATT CGAGAAGCTT ATCTGCCTGA GCTGTCTGTG ATTCCGGGTG TCAATGCGGC TATTTTTGAA 3400 GAATTAGAAG GGCGTATTTT CACTGCATTC TCCCTATATG ATGCGAGAAA TGTCATTAAA AATGGTGATT TTAATAATGG CTTATCCTGC TGGAACGTGA 3500 AAGGGCATGT AGATGTAGAA GAACAAAACA ACCAACGTTC GGTCCTTGTT CTTCCGGAAT GGGAAGCAGA AGTGTCACAA GAAGTTCGTG TCTGTCCGGG 3600 TCGTGGCTAT ATCCTTCGTG TCACAGCGTA CAAGGAGGGA TATGGAGAAG GTTGCGTAAC CATTCATGAG ATCGAGAACA ATACAGACGA ACTGAAGTTT 3700 AGCAACTGCG TAGAAGAGGA AATCTATCCA AATAACACGG TAACGTGTAA TGATTATACT GTAAATCAAG AAGAATACGG AGGTGCGTAC ACTTCTCGTA 3800 ATCGAGGATA TAACGAAGCT CCTTCCGTAC CAGCTGATTA TGCGTCAGTC TATGAAGAAA AATCGTATAC AGATGGACGA AGAGAGAATC CTTGTGAATT 3900 TAACAGAGGG TATAGGGATT ACACGCCACT ACCAGTTGGT TATGTGACAA AAGAATTAGA ATACTTCCCA GAAACCGATA AGGTATGGAT TGAGATTGGA 4000 SAAACGGAAG GAACATTTAT CGTGGACAGC GTGGAATTAC TCCTTATGGA GGAA (end HD-1)

FIG. 11B

Seiarro Miloso Son FIG 6/16
Filing Date: Dec 23 s 2001 subclass
Applicants: Edwards et al.

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IPYNCLSNPE M D N Ν Ρ Ν Ι Ν Ε С VEVLGGERIE G Τ OFLL F Т Y Т Ρ Ι D Ι S \mathbf{L} S L S \mathbf{E} V P GAGF V L V D Ι Ι G Ι F G Ρ S O W DAF L V Q Ι Ε W Q L Ι NOR Ι Ι S R L Ε GLSNL Y 0 Y I Α S F R Ε WE RIQFNDMN Ρ Α L R Ε Ε Μ S Α L TA T I Ρ L F V ₽ L L S V Y VQAANL Η L S V L R D V S V F G O DAAT S RYND TRLI G N G F I N L ΥT D Y V Y Т ΕR V W Ρ D S N F G L G R D W V R Y 0 R R Ε L Ι V Α L F Ρ N Y D S R R Y P Ι R Τ V S QLT R Ε P R S V L Ε Ν F D G S G S ΑQ G I Ε G IRSP F HLΜ D Т K GE YYWS GН Q D Α Η I M A S Ρ V G F M QQRIVAQL F L Y G T G N ΑА P G Q G V Y R Т Y R R Ρ F Ι I NNQQL Ν G SVLD T G Ε F S LΡ Y R K G Т S S Ν SAV S V D L D Ε Ι Ρ Ρ Ν N Η R 0 S S V S Μ F R S G F S N S G F H R L S V S Ι Ι Ρ F S W OH R S Α E F Ν Ν I I P S S Q I Τ Q Ι Ρ L T VKG T G S G \mathbf{T} S V ₽ G G G Ι L R R Τ S Ν \mathbf{F} D Ρ G 0 Ι RYR V Ι ΤA РL S Q V R Ι R Y Α S T Τ Ν Ι G Ι Ν 0 G N F S Α T Μ S S G S Ν L 0 S G S F R F F S N G S S V F T L S Α Η V F Ν S G Ε V Ι Ε V P Α Ε V Т F Ε Α Ε Y D L ERA Q ΚA V Ε L F Ν Т Ι 0 Ι GLK Т D D Y H D Q V S NLVE C V L S D Ε EKQEL S Ε ΚV KHAKRL S D ERNL L D Ρ Ν F R NRQLD R G W G S Τ D Ι Τ Ι 0 G G D D V F K Ε N Y C Y P G T F D Ε Τ Y L Y QKID E S K L K T Α Y G YIED SQD L Ε Ι ΥL Ι R ΥN AKH Ε Τ V Ρ Ν V L W PLSAQ S Ρ IGKC R C G Ε Ρ N Α P Η L L D C S CRDGEKC AHHSHHF S L D Ι V G T D C Ι KTQDGH L V K I A R L G Ν L Ε Ε Α L Α R V ΚR Α \mathbf{E} KKWR D KRE K L Ε Ε T W Ν \mathbf{E} Α K Ε S V D Α L F V N S Q Y D Q \mathbf{L} Q Α D Т Ν Ι Α Ι KRV Η REAYLPE V Ι Ρ AAD S Ι L S G V Ν Α Α Ι F Ε G R F Т F S LYDARNV I K Ν G Ι Α D F Ν Ν G L S K G EEQNNQ R S V P V Η V D V L V L E W Ε E V S Т V C ΡG R G Y Ι LR V Α Y K Ε G Y G Ε G C T V Ι Η DE LKF S Ν VΕ ΕE P N T С I Y N Ν Т V T C D SRNRGYNE Ε Y G G Α Т Ė Y Α Ρ S Ρ S V Α D Y Α Y T D G RRENPC EFNRG ΥR D Y T Ρ V ΚE YFPETDKVWIEIGETEG V T LΕ TF ΙV ELLLMEE

FIG. 12

(SEQ. ID. NO. 8)